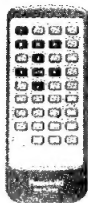


Panasonic

Portable DVD/Video CD/CD Player

Operating Instructions



Model No. **DVD-LV60**
DVD-PV40



- The photographs show DVD-LV60.
- DVD-PV40 does not have the LCD.

For the United Kingdom and Continental Europe

■ Region number supported by this unit

Region numbers are allocated to DVD players and software according to where they are sold.

- The region number of this unit is "2".
- You can play DVDs marked with labels containing "2" or "ALL".

Example:



For Asia

■ Region number supported by this unit

Region numbers are allocated to DVD players and software according to where they are sold.

- The region number of this unit is "3".
- You can play DVDs marked with labels containing "3" or "ALL".

Example:



Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

Note

"EB" on the packaging indicates the United Kingdom.

EG EB GCS

RQT5932-B

Accessories



Please check and identify the supplied accessories.

- ☐ **Remote control** 1
(For the United Kingdom and Continental Europe: N2QAHC000008)
(For Asia: N2QAHC000009)
- ☐ **Button-type battery** 1
For remote control
(For replacement, ➡ page 11)
- ☐ **Audio/video cable** 1
(RJL3X001X15)
- ☐ **AC adaptor** 1
(N0JEEJ000001)
- ☐ **AC mains lead** 1
(For the United Kingdom: RJA0053-2X)
(For Continental Europe and Asia: RJA0019-1X)
- ☐ **S video cable** **DVD-PV40** 1
(RFX4139)
- ☐ **RCAJ adaptor** **DVD-PV40** 1
(For the United Kingdom and Continental Europe: VFA0151-2)
- ☐ **Battery pack** **DVD-LV60** 1
(For replacement, ➡ page 12)

Use numbers indicated in parentheses when asking for replacement parts.

Note

The included AC mains lead and AC adaptor are for use with this unit only. Do not use them with other equipment.

Table of contents

Getting Started:

Precautions	6
Disc information	8
Disc and unit handling precautions	10
Maintenance	11

Basic Operations:

Basic play	16
• Resume function	17
• Skipping chapters and tracks	18

Advanced Operations:

Changing the play sequence	20
• Program play	20
• Random play	20
Changing soundtracks, subtitle languages and angles	21
Enjoying Virtual Surround Sound (V.S.S.)	22

For Your Reference:

Changing initial settings	29
• Common procedures	29
• Summary of initial settings	30
• Language code list	32
• Entering a password	33
• Digital output	34
Connecting other equipment	35

These operating instructions are applicable to models DVD-LV60 and DVD-PV40.

However, most of the illustrations show model DVD-LV60.

Caution for AC Mains Lead



(For United Kingdom) ("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.

If in any doubt please consult a qualified electrician.

IMPORTANT


The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral, Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL  OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

- 1 Open the fuse cover with a screw-driver.
- 2 Replace the fuse and close or attach the fuse cover.

Figure A

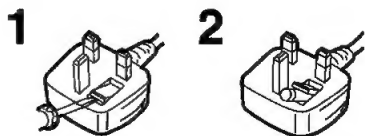
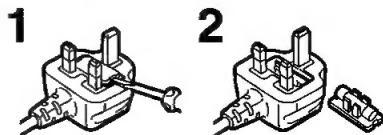
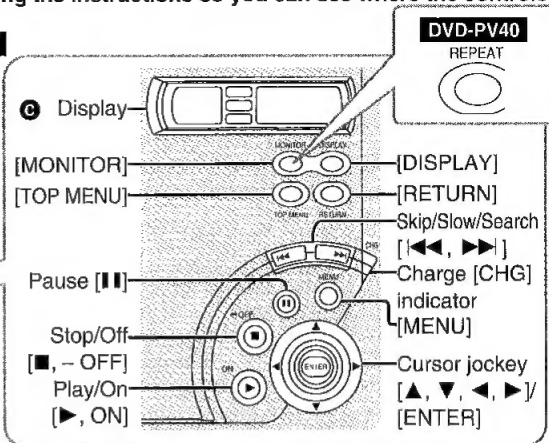
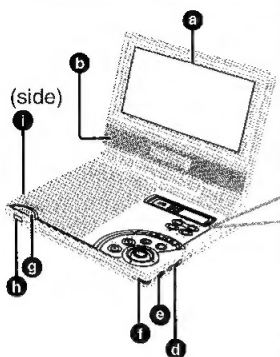


Figure B



Open this page while reading the instructions so you can see where the controls are.

This figure shows DVD-LV60.

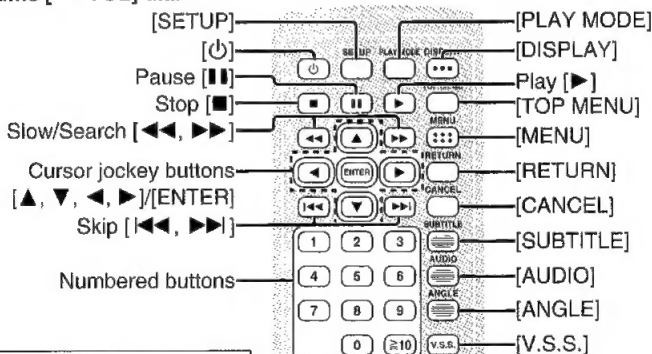


Main Unit

- a 5.8-inch wide screen LCD (DVD-LV60)
- b Stereo speakers (DVD-LV60)
- c Disc lid [PUSH OPEN] button
- d Volume [◀ VOL] dial

- e [HOLD] switch
- f Standby [⏻] indicator
- g Disc lid [PUSH OPEN] button

- h Remote control signal sensor
- i Headphone [🔊] jack



※This illustration shows the remote control for the United Kingdom and Continental Europe. [POWER] is printed above the [⏻] button on the model for Asia.

Remote Control

Using the cursor

On the main unit:

Slide the cursor jockey in the direction you want to move the cursor.

[▲] up, [▼] down, [◀] left, [▶] right.

On the remote control:

Press the cursor jockey button corresponding to the direction you want to move the cursor.

[▲] up, [▼] down, [◀] left, [▶] right.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Marking sign is located on bottom of the unit.

**CLASS 1
LASER PRODUCT**

**LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT**



(Bottom of the unit)

CAUTION	— VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ATTENTION	— RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
VORSICHT	— SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ADVARSEL	— SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNNGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	— SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING	— SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VARO!	— AVATTAESSA OLET ALTTIIN NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
注意	— 打开时有可见及不可见激光辐射, 避免激光束照射。

(Bottom of the unit)

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER ANDRE INNGREP ENN DE SOM ER BESKREVENT I DENNE BRUKS-ANVISNING, KAN FØRE TIL FARLIG BESTRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FØRSØK ALDRIG Å REPARERE APPARATET PÅ EGENHÅND. ALT SERVICE OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFISERT PERSONELL.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, STRØMSJOKK ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARATET IKKE UTSETTES FOR REGN, VANNSPRUT, VANNDRÅPER ELLER FUKTIGHET.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEES-
SA MAINITULLA TAVALLA SAAT-
TAA ALTISTAA KÄYTTÄJÄN
TURVALLISUUSLUOKAN 1 YLIT-
TÄVÄLLE NÄKYMÄTTÖMÄLLE
LASERSÄTEILYLLE.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN
TAI MUUN VAHINGON VÄHENTÄ-
MISEKSI EI LAITETTA SAA AL-
TISTAA SATEELLE, ROISKEELLE,
VESIPISAROILLE TAI KOSTEU-
DELLE.

Matsushita Electric Industrial Co., Ltd.

Osaka 542-8588, Japan

(En)

RQT5932-B

F0301MN0

Specifications

Power supply:	DC 9 V (DC IN terminal) DC 7.2 V (Exclusive battery terminal)
Power consumption:	DVD-LV60 14 W (8 W: Unit only) DVD-PV40 7 W (3.5 W: Unit only)

AC adaptor

Power source:	AC 100–240 V, 50/60 Hz
Power consumption:	30 W
DC output:	9 V, 2 A

Power consumption
in standby mode: 1.5 W
(when using the included AC adaptor)

Dimensions:

DVD-LV60 159 (W)×140 (D)×27 (H) mm
(when the LCD screen is closed,
excluding protrusions)

DVD-PV40 159 (W)×140 (D)×16.2 (H) mm
(excluding protrusions)

Mass: **DVD-LV60** 510 g **DVD-PV40** 258 g

Operating temperature range: 5–35 °C

Operating humidity range:
5–90 % RH (no condensation)

Signal system:

For the United Kingdom and Continental Europe

DVD-LV60
PAL625/50, PAL525/60

DVD-PV40
PAL625/50
PAL525/60, NTSC (selectable)

For Asia

PAL625/50
PAL525/60, NTSC (selectable)

Discs played:

- (1) DVD disc
- (2) Compact disc (CD-DA, VIDEO CD)
- (3) CD-R/CD-RW (CD-DA, Video CD formatted discs)

LCD screen: **DVD-LV60**

5.8" α-Si, TFT wide-screen LCD

S video output:

Y output level:	1 Vp-p (75 Ω)
C output level:	0.286 Vp-p (75 Ω) (NTSC) 0.3 Vp-p (75 Ω) (PAL)
Output terminal:	Also used for video output/*input

Video output/*input:

Output/*input level:	1 Vp-p (75 Ω)
Output/*input terminal:	Mini-jack (1 system, *Output/input selectable)

Audio output/*input:

Output/*input level:	1.5 Vrms (1 kHz, 0 dB)
Output/*input terminal:	2 ch (MIX) Output (L/R): Stereo mini-jack (1 system, *Output/input selectable)

Audio signal output characteristics:

- (1) Frequency response:
 - DVD (linear audio):
4 Hz–22 kHz (48 kHz sampling)
4 Hz–44 kHz (96 kHz sampling)
 - CD audio: 4 Hz–20 kHz
- (2) S/N ratio:
 - CD audio: 115 dB
- (3) Dynamic range:
 - CD audio: 97 dB

Digital audio output:

Optical digital output: Mini optical terminal
(Also used for audio output/*input)

For the United Kingdom and Continental Europe

DC OUT terminal for face-mounted display

[EYE-TREK (FMD-250W) only]: **DVD-PV40**
DC 5 V

Pickup:

Wave length:	660 nm/780 nm
Laser power:	CLASS 2/CLASS 1

SVENSKA

Pickup: Våglängd: 660 nm/780 nm
Laserstyrka: Ingen farlig strålning
(när säkerhetsspärren är inkopplad)
KLASS 2/KLASS 1

DANSK

Pickup: Bølgelængde: 660 nm/780 nm
Lasereffekt: Ingen farlig stråling
(med sikkerhedsbeskyttelse)
CLASS 2/CLASS 1

NORSK

Pickup: Bølgelengde: 660 nm/780 nm
Laser-styrke: Ingen farlig strålning
sendes ut
(med sikkerhets-beskyttelse)
KLASSE 2/KLASSE 1

Note

Specifications are subject to change without notice.

Mass and dimensions are approximate.

*DVD-PV40 does not have audio/video input.

Troubleshooting Guide

Displays

NO PLAY	The unit cannot play this disc. ⑧
"bt Err" and a number appear on the display.	"bt Err1": A problem has occurred with the battery pack. Consult your dealer.
	"bt Err2": The pack has been recharging for 12 hours but has failed to recharge for some reason. Recharge again.
	"bt Err3": The battery pack has overheated during recharging. Allow the pack to cool down before recharging again.
No On-Screen display.	Go to the Display menu in the SETUP screen, and select "On" for "On-Screen Messages". ⑪
GUI screens are cut off or are not displayed at all.	Press [▲, ▼] while the rightmost icon is highlighted to move them down. ⑫
U11	Wipe the disc clean. ⑩
H □ □ □ □ stands for a number.	Trouble has occurred. The number appearing after H depends on the problem. Turn the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack) reconnect the power and turn the unit on again. If the service numbers fail to clear, note the service number and contact a qualified service person.

Note

The following do not indicate malfunction.

- A sound is heard from the AC adaptor during recharging.
- The battery pack warms up after recharging or during use.

Problem	Solution
The monitor is dark. DVD-LV60	Adjust the brightness. 23
The picture is disrupted during fast forward and rewind.	Some disruption is normal.
No picture on the screen (including video from another unit). DVD-LV60	Check connections. 39 Ensure the video input setting is correct. ● While you are playing a disc "LINE-IN" should be off. ● While you are viewing video from other equipment "LINE-IN" should be on. 39 Select a picture mode other than "4 (Off)". 23 Ensure the power of the connected equipment is on.
Picture doesn't appear on the television (or the size of the picture seems wrong).	Check connections. 14 Check that the television is on. Check that the input mode on the television is correct. Check the settings in "Video-TV Aspect". 15
LCD pixels turn black or radiate different colors. DVD-LV60	The LCD is constructed with precision technology so 99.99 % of the pixels are active, but of the remaining 0.01 %, there are pixels that may be black or emit light constantly. This phenomenon is not a malfunction.

[⏻] and [CHG] Indicators

The [⏻] indicator flashes when you press a button.	The unit is in hold mode or "LINE-IN" (DVD-LV60) on the unit's display is on. Release the hold mode or press [IN/OUT] to turn off "LINE-IN". 17, 39
The [⏻] indicator flashes slowly. DVD-LV60	The unit is on and the LCD is closed or the display mode is set to "4 (Off)". Turn the unit off when you have finished. 23
The [CHG] indicator flashes.	A problem occurred with the battery pack. Confirm the unit's display. 44
The [CHG] indicator flashes slowly.	Battery pack charge is low. The unit will turn off automatically after a few minutes.

Troubleshooting Guide

Problem	Solution
No operation with remote control.	Check the battery is inserted correctly. ①
	Replace the battery if it is drained. ①
	Aim the remote control at the remote control signal sensor. ①
The audio soundtrack or subtitle language cannot be changed.	Languages can only be selected if they are recorded on the DVD.
	Some DVDs require you to change the languages through menus.
Subtitles not shown.	Subtitles appear only if they are recorded on the DVD.
	Turn the subtitles on. ②
	Subtitles may fail to appear around the A and B points in A-B repeat, and around the points you marked to play again.
Angles cannot be changed.	Angles can only be selected if they are recorded on the DVD. There may be parts of multi-angle DVDs where different angles are not recorded.
You have forgotten your ratings password.	Do the following to reset the unit to its original factory settings. While the unit is stopped, press and hold [III], [◀◀] (backward), and [▶, ON] on the main unit for about 3 seconds until the message "Initialized" disappears from the screen, then turn the unit off.
You want to reset the unit to the factory settings.	
There is a lot of noise.	Separate the unit from mobile phones if they are being used close to each other.
Distorted sound.	V.S.S. may cause distortion with some discs. Turn V.S.S. off if this occurs. ②②
No sound from the unit's speakers. DVD-LV60	The speakers are off if the LCD is closed or headphones are connected.
	Turn up the volume.
No sound from other speakers.	Check all connections and settings. ③⑤-④⑨
	Check input mode of the other equipment.
Some parts of the soundtrack are missing.	Turn V.S.S. off if you have connected this unit to other equipment with audio cables and are using 3 or more speakers. ②②

Troubleshooting Guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Reference pages are shown as black circled numbers ⑫.

Problem	Solution
No power.	Check connections to the AC adaptor or battery pack. ⑫ ⑬
	Release the hold mode. ⑰
	Confirm the battery charge on the unit's display. ⑬
	You cannot turn on the unit with the remote control if the unit is powered by the battery pack.
Unit turns off automatically.	The unit turns off after it has been stopped for about 15 minutes (5 minutes when using the battery pack) to conserve power (Auto standby). Turn the unit on again. ⑮
Cannot charge battery pack or the [CHG] indicator fails to light.	The battery pack can only be recharged when the unit is off. ⑮ ⑮
	The charging time increases if the battery pack is warm and charging may not be possible under some circumstances. Wait for the battery pack to cool off.
	Check connection to the AC adaptor. ⑫
Unit doesn't work when powered by the battery pack.	The battery pack has protection circuitry that activates if the pack becomes too hot or too cold. The battery pack will not work if this occurs. Use the unit at about 20 °C.
No response when buttons are pressed.	Some discs prohibit certain operations. ⑧
	Release the hold mode. ⑰
	If there is no response at all, the unit may have been affected by lightning or static electricity. Try turning the unit off and on again. Alternatively, turn the unit off, disconnect the power source (AC or battery pack) reconnect the power and turn the unit on again.
Play fails to start or stops soon after starting.	Condensation may have formed in the unit. Wait an hour for it to clear.
	This unit cannot play discs other than those specified. ⑧
	Wipe the disc clean. ⑩
	Ensure the disc is inserted correctly. ⑮
	Check the ratings setting. ③③

Glossary

Bitstream

This is the digital form of multiple channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

Chapter

This is the smallest division on DVDs and is roughly equivalent to a track.

Dolby Digital

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel audio. A large amount of audio information can be recorded on the disc using this method.

Dolby Pro Logic

A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play. The surround channel is monaural and can reproduce up to 7 kHz.

DTS (Digital Theater Systems)

This is a method of coding digital signals developed by Digital Theater Systems. The signals are compressed at a low ratio to maintain sound quality.

Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Field

One frame is made up of 2 fields. A regular television shows these fields one after the other to create frames.

Frame

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.

Frame still and field still

A still is shown when you pause a moving picture.

A frame still is made up of 2 alternating fields, so the picture may appear blurred, but overall quality is high.

A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

I/P/B

MPEG 2, the video compression standard adopted for use with DVDs, codes frames using these 3 picture types.

I: Intra coded picture (I-picture)

This is the standard picture and is a complete picture in itself. This means it has the best picture quality and is the best to use when adjusting the picture.

P: Predictive coded picture (P-picture)

This picture is calculated based on past I or P-pictures.

B: Bidirectionally-predictive coded picture (B-picture)

This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM

(pulse code modulation)

PCM is the usual digital method used for music CDs. DVDs have a greater volume so they use linear PCM, which has a higher sampling rate.

Playback control (PBC)

This method of controlling disc play is included on version 2.0 Video CDs. You are able to interact with the disc through menus.

Title

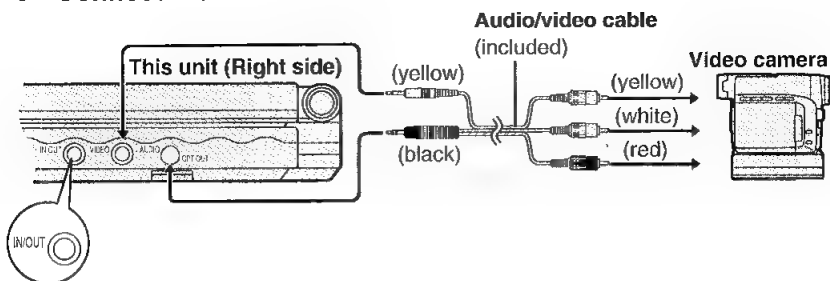
This is the largest division on DVDs.

Track

This is the smallest division on Video CDs and CDs and usually equates to a single song.

Watching video from a video camera DVD-LV60

1 Connect the video camera to this unit.



2 Press [IN/OUT] to switch to input mode.

The "LINE-IN" indicator lights on the unit's display.

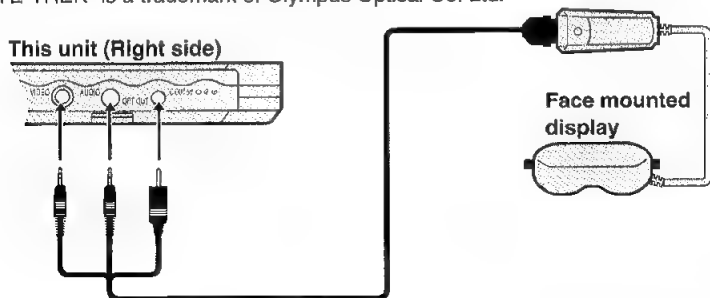
Note

- "LINE-IN" mode is canceled when this unit is turned off. Press [IN/OUT] again so "LINE-IN" indicator lights on the unit's display.
- Auto standby (→ page 16) does not work while the "LINE-IN" mode is on. Turn the unit off when you have finished using it.

Using a face mounted display (EYE-TREK®)

DVD-PV40 For the United Kingdom and Continental Europe

※ "EYE-TREK" is a trademark of Olympus Optical Co. Ltd.



Note

- Use only model FMD-250W.
- Do not use the AC adaptor included with FMD-250W to power this unit.

Recording to MDs and cassettes

You can connect recording equipment either through an amplifier or directly to this unit. When connecting directly, use the same method used for connecting a 2-channel amplifier or mini-system (⇒ page 37.)

Analogue recording

You can record to an MD or cassette deck without sound being affected by copy guards if you use analogue connection.

- Use a stereo connection cable for analog connection.

Digital recording

You can record the digital signal directly onto an MD.

- Use an optical fiber cable for digital connection. Ensure the following conditions are met.

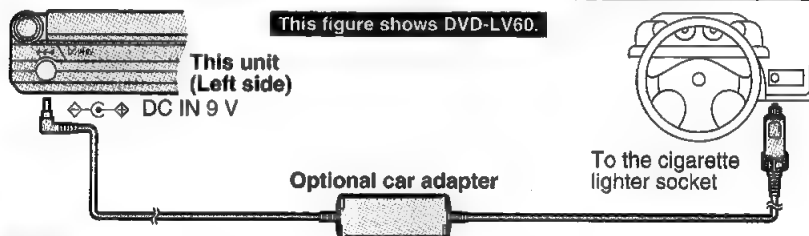
1. There is no copy guard recorded on the disc.
2. The recording equipment can handle a sampling frequency of 48 kHz/16 bit.
3. Settings in Audio menu (⇒ page 34, "Digital output") have been set as follows:

PCM Down Conversion: Yes Dolby Digital: PCM

DTS Digital Surround: Off MPEG*: PCM

*Only for the United Kingdom and Continental Europe

Using an optional car adapter: part number DY-DC95



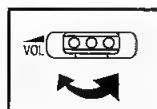
Note

In the interests of traffic safety, do not perform operations on the unit or view video software while driving a vehicle.

Using headphones

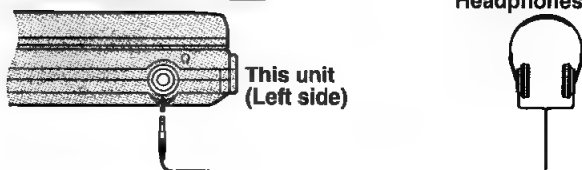
Preparations

- Turn down the volume before connection, and then adjust the level.
- Headphones with 3.5 mm stereo plug can be connected.



Volume [VOL] dial
(Right side)

This figure shows DVD-LV60.

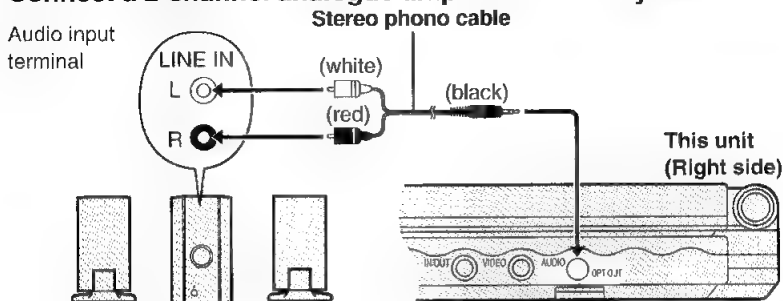


When headphones are connected, no sound will be output from the unit's stereo speakers.

Listening through 2 speakers

Analogue connection

Connect a 2-channel analogue amplifier or mini-system.



2-channel analogue amplifier or mini-system
(including amplifier with Dolby Pro Logic)

This figure shows DVD-LV60.

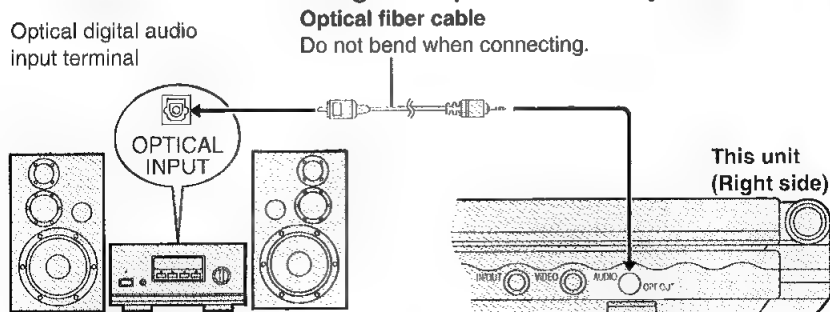
■ To enjoy Dolby Pro Logic (⇒ page 40)

As well as the connections shown above, you will need to connect center and surround speakers. See the operating instructions for the other equipment for connection procedures.

- Turn V.S.S. off. Surround effects will not work correctly if V.S.S. is on (⇒ page 22).

Digital connection

1 Connect a 2-channel digital amplifier or mini-system.



2-channel digital amplifier or mini-system

This figure shows DVD-LV60.

2 Adjust the settings to suit the equipment you have connected (⇒ page 34, "Digital output").

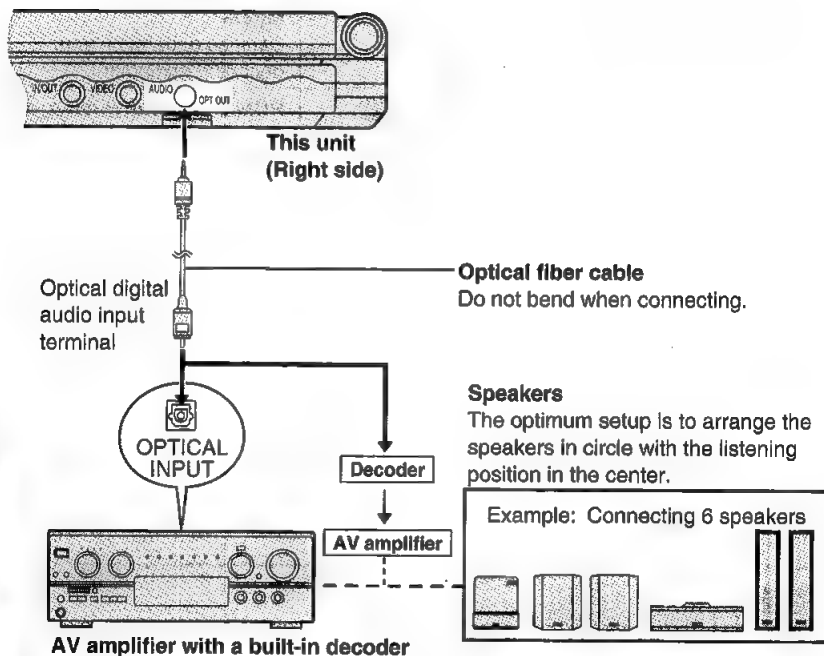
Enjoying more powerful sound

Enjoying surround sound with 3 or more speakers

Digital connection

- 1 Connect an amplifier that has the necessary decoders built-in (or an amplifier-decoder combination).

This figure shows DVD-LV60.






- 2 Adjust the settings to suit the equipment you have connected (→ page 34, "Digital output").

Note

You cannot use ■ DTS decoder that cannot handle signals from DVD.

Connecting other equipment

This unit can play Dolby Digital, but only in two channels. This unit does not have a DTS decoder. You must connect a unit with a Dolby Digital or DTS decoder to enjoy surround sound.

What you want to do	How to do it	Settings (⇒ page 34)
To enjoy 5.1-channel surround sound	 Connect digitally and use the decoder in another piece of equipment. (⇒ page 36)	PCM Down Conversion Select "Yes". Dolby Digital DTS Digital Surround MPEG* Settings depend on your decoding equipment.
To enjoy stereo or Dolby Pro Logic	 Connect to an analogue amplifier or system component. (⇒ page 37)	PCM Down Conversion Select "No".
	 Connect to a digital amplifier or system component. (⇒ page 37)	PCM Down Conversion Select "Yes". Dolby Digital Select "PCM". DTS Digital Surround Select "Off". MPEG* Select "PCM".

*MPEG: Only for the United Kingdom and Continental Europe

■ Other uses

Recording to MDs or cassettes (⇒ page 38).

Note

- Close the LCD to conserve power when you have connected this unit to another monitor and speakers. The LCD and speakers are off while the LCD is closed. **DVD-LV60**
- The equipment connections described are examples.
- Peripheral equipment and optional cables sold separately unless otherwise indicated.
- Before connection, turn off all equipment and read the appropriate operating instructions.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

Changing initial settings

Digital output DVD

Refer also to "Common procedures" (→ page 29) and the Audio menu in "Summary of initial settings" (→ pages 30 and 31).

■ PCM Down Conversion

No (Factory preset): When you have connected an amplifier with audio cables.

Yes: When you have connected an amplifier with an optical digital audio cable.

Copyright protection limits digital output to 48 kHz/16 bit.

When playing DVDs recorded in 96 kHz

Sound is output as follows in accordance with the connections and settings you have made.

Setting \ Connection	Analogue	Digital
No	Output as 96 kHz	No output (Audio will be output at 96 kHz if the DVD has not had copyright protection recorded on it. ^{*1})
Yes	Converted and output as 48 kHz	Converted and output as 48 kHz/16 bit

^{*1} The connected equipment must be able to handle 96 kHz LPCM in order to take advantage of high quality audio found on these discs.

■ Dolby Digital

Bitstream (Factory preset): When you have connected a unit with a built-in Dolby Digital decoder.

PCM: When you have connected a unit that doesn't have a built-in Dolby Digital decoder.^{*2}

■ DTS Digital Surround

Off (Factory preset): When you have connected a unit that doesn't have a built-in DTS decoder^{*2}. (No digital signal is output.)

Bitstream: When you have connected a unit with a built-in DTS decoder.

■ MPEG For the United Kingdom and Continental Europe

PCM (Factory preset): When you have connected a unit that doesn't have a built-in MPEG decoder.^{*2}

Bitstream: When you have connected a unit with a built-in MPEG decoder.

^{*2} These changes to digital audio output must be made, otherwise bitstream signals the decoder cannot handle will be output. If these signals are output, "noise" will be output which can cause harm to your ears and speakers.

Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

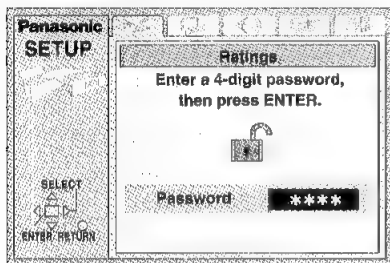
Entering a password DVD Remote control only

Refer also to "Common procedures" (➔ page 29) and the Disc menu in "Summary of initial settings" (➔ page 30).

When setting ratings (when level is 8)

The password screen is shown when you select levels 0 to 7.

1. Input a 4-digit password with the numbered buttons and press [ENTER].



- If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].

The lock symbol appears closed to show the rating is locked.

Do not forget your password.

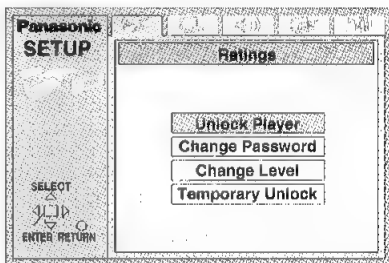
2. Press [ENTER] to confirm the 4 digits.

Now, when you insert a DVD that exceeds the ratings limit you set, a message appears on the television. Follow the on-screen instructions.

When changing ratings (when level is set to 0 to 7)

The password screen is shown when you select "Ratings".

1. Input your 4-digit password with the numbered buttons and press [ENTER].



2. Select the item with [▲, ▼] and press [ENTER], and follow the on-screen instructions.

Changing initial settings

Language code list

Abkhazian: 6566	Finnish: 7073	Lithuanian: 7684	Sindhi: 8368
Afar: 6565	French: 7082	Macedonian: 7775	Singhalese: 8373
Afrikaans: 6570	Frisian: 7089	Malagasy: 7771	Slovak: 8375
Albanian: 8381	Galician: 7176	Malay: 7783	Slovenian: 8376
Ameharic: 6577	Georgian: 7565	Malayalam: 7776	Somali: 8379
Arabic: 6582	German: 6869	Maltese: 7784	Spanish: 6983
Armenian: 7289	Greek: 6976	Maori: 7773	Sundanese: 8385
Assamese: 6583	Greenlandic: 7576	Marathi: 7782	Swahili: 8387
Aymara: 6588	Guarani: 7178	Moldavian: 7779	Swedish: 8386
Azerbaijani: 6590	Gujarati: 7185	Mongolian: 7778	Tagalog: 8476
Bashkir: 6665	Hausa: 7265	Nauru: 7865	Tajik: 8471
Basque: 6985	Hebrew: 7387	Nepali: 7869	Tamil: 8465
Bengali: 6678	Hindi: 7273	Norwegian: 7879	Tatar: 8484
Bangla: 6678	Hungarian: 7285	Oriya: 7982	Telugu: 8469
Bhutani: 6890	Icelandic: 7383	Pashto: 8083	Thai: 8472
Bihari: 6672	Indonesian: 7378	Pushto: 8083	Tibetan: 6679
Breton: 6682	Interlingua: 7365	Persian: 7065	Tigrinya: 8473
Bulgarian: 6671	Irish: 7165	Polish: 8076	Tonga: 8479
Burmese: 7789	Italian: 7384	Portuguese: 8084	Turkish: 8482
Byelorussian: 6669	Japanese: 7465	Punjabi: 8085	Turkmen: 8475
Cambodian: 7577	Javanese: 7487	Quechua: 8185	Twì: 8487
Catalan: 6765	Kannada: 7578	Rhaeto-Romance: 8277	Ukrainian: 8575
Chinese: 9072	Kashmiri: 7583	Romanian: 8279	Urdu: 8582
Corsican: 6779	Kazakh: 7575	Russian: 8285	Uzbek: 8590
Croatian: 7282	Kirghiz: 7589	Samoan: 8377	Vietnamese: 8673
Czech: 6783	Korean: 7579	Sanskrit: 8365	Volapük: 8679
Danish: 6865	Kurdish: 7585	Scots Gaelic: 7188	Welsh: 6789
Dutch: 7876	Laotian: 7679	Serbian: 8382	Wolof: 8779
English: 6978	Latin: 7665	Serbo-Croatian: 8372	Xhosa: 8872
Esperanto: 6979	Latvian: 7686	Shona: 8378	Yiddish: 7473
Estonian: 6984	Lettish: 7678		Yoruba: 8979
Faroese: 7079	Lingala: 7678		Zulu: 9085
Fiji: 7074			

Note**● If "⓪" appears on the screen**

The operation is prohibited by the unit or disc.

● When the disc ends

If you have finished using the unit, turn it off to conserve power (➡ page 16, "To turn the unit off").

● The surface of the unit may become warm if it is used for a long time, but this is normal and not an indication of malfunction.**● The disc is still spinning while a menu is on screen. Press [■] if you have finished viewing.****● When [▶] (PLAY) is pressed immediately after a DVD disc is loaded into the tray, play will take a little longer to start than when [▶] (PLAY) is pressed from the stop mode. It usually takes a little while before picture and sound appear on the television after [▶] (PLAY) is pressed, this is not a malfunction of the unit.****● The [⓪] indicator on the unit flashes to indicate the unit is on when the monitor's mode is set to "4 (Off)" (➡ page 23) or the outer cover is closed. **DVD-LV60******● To prevent accidental operation**

Slide [HOLD] to the left.



In the hold mode, the unit does not respond when you press the buttons. If you press a button in the hold mode, "HOLD" appears on the unit's display and the [⓪] indicator flashes.

To release:

Slide [HOLD] to the right.

Resume function

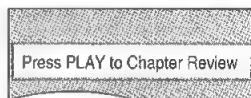
The position you stopped play at is recorded by the unit when the "RESUME" indicator lights on the unit's display.



While the "RESUME" indicator is on, press [▶] (PLAY) to start play from where you stopped it.

DVD

The following display also appears.



("Press PLAY to Preview Chapters" for Asia.)

Press [▶] (PLAY) while the message is displayed and the beginning portions of each chapter up to the current one are played. Full play resumes from the point where you stopped play. (This feature works only within a title.)

If you do not press [▶] (PLAY), the message disappears and play starts from where you stopped it.

■ To cancel

Press [■].

Note

- The resume function does not work if the disc's play time is not displayed.
- It is cleared if you open the disc lid.

Playing CD-R and CD-RW

This unit can play CD-DA (digital audio) and video CD format audio CD-R and CD-RW that have been finalized* upon completion of recording.

It may not be able to play some CD-R or CD-RW due to the condition of the recording.

*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Basic play

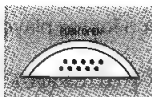
Preparations

- Prepare the power supply (⇒ pages 12 and 13).
- Turn on the television and select the appropriate video input on the television to suit the connections for the player.

Open the outer cover. **DVD-LV60**



1



Press **[PUSH OPEN]** to open the disc lid and insert a disc with the side you want to play label up.

Close the disc lid by hand.

This figure shows DVD-LV60.



Clicks

2



Press and hold **[▶, ON]** to start play.

The unit comes on automatically.

See below if a menu appears.

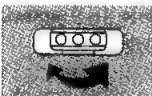
Display



Chapter/
track number
(2-digit display)

Elapsed
playing time

3



Adjust the volume. **DVD-LV60**

Adjust the volume on the other equipment. **DVD-PV40**

■ To stop play

Press **[■]** (⇒ page 17, Resume function).

■ To pause play

Press **[||]** during play.

Press **[▶]** (PLAY) to restart play.

■ To turn the unit off



Press and hold **[■, - OFF]** until the display is turned off.

■ Turning the unit on and off with the remote control



Press **[⏻]**.

You cannot use the remote control to turn the unit on when it is being powered by the battery pack.

■ Auto standby

The unit automatically turns off after being stopped for 15 minutes (5 minutes when the battery pack is being used).

Using menus: Basic operations

DVD VCD

Press the remote control's numbered buttons to select an item.

Or

DVD

Use **[▲, ▼, ◀, ▶]** to highlight an item and press **[ENTER]**.

■ Selecting a 2-digit number

e.g. 25: **[≥10]→[2]→[5]**

■ Other menu operations

Operation of menus differs from disc to disc, so read the disc's instructions for details.

[▶▶▶]: To move to the next menu

[◀◀◀]: To return to the previous menu

[TOP MENU]: To return to the first menu

[MENU]: To show menus

[RETURN]: To show menus **VCD**

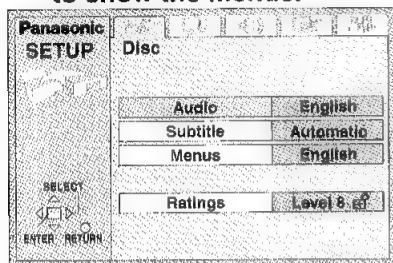
Selecting TV screen type

Choose the setting to suit your television and preference.

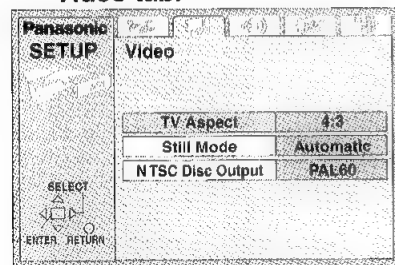
Preparations

- Turn on your television and the unit (→ page 16).
- Switch the video input mode on the television to suit the connection for the player.

1 Press [SETUP] or [MENU] to show the menus.



2 Press [◀, ▶] to select the Video tab.



3 Press [▲, ▼] to select "TV Aspect" and press [ENTER].

4 Press [▲, ▼] to select the item and press [ENTER].

• 4:3 Pan & Scan (factory preset)

Select if you have a regular television and to view 16:9 software in the pan and scan style (a).

• 4:3 Letterbox

Select if you have a regular television and to view 16:9 software in the letterbox style (b).

• 16:9

Select when a wide-screen television is connected.



The Video menu is shown.

5 Press [SETUP] or [MENU] to end the settings.

■ To return to the previous menu

Press [RETURN].

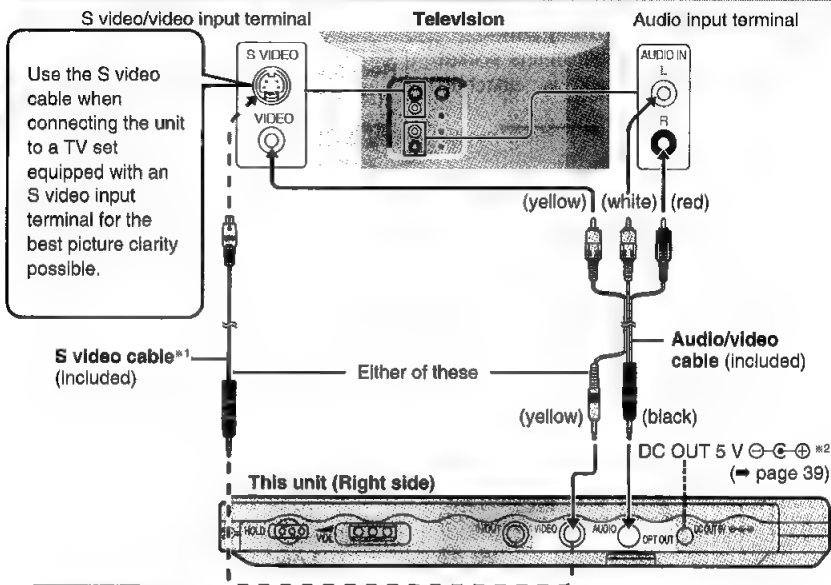
Note

- 16:9 software prohibited from being shown in the pan and scan style will appear in the letterbox style despite the setting here.
- DVDs are recorded in a variety of aspect ratios. You can change the way software is shown on a regular television (4:3) with the above operation. If you have a widescreen television (16:9), use the television's picture modes.

Easy setup—Television connections and settings

The explanations in this section use DVD-PV40 as an example, but the same connections and the settings are possible with DVD-LV60.

Connecting to a television



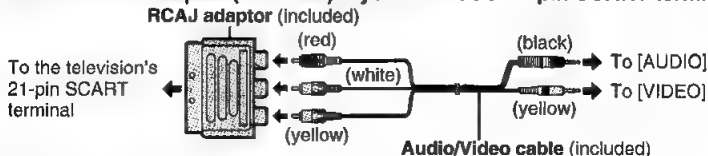
*1 DVD-LV60 : S video cable is not included.

Available from Panasonic dealers. Part number: RFX4139

*2 For Asia : [DC OUT 5 V \ominus \oplus] is not available.

For the United Kingdom and Continental Europe

Use the RCAJ adaptor (included) if your TV has a 21-pin SCART terminal.



Note

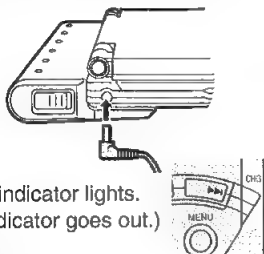
- The speakers on DVD-LV60 do not have magnetic shielding. Do not place the unit near televisions, personal computers or other devices easily influenced by magnetism.
- Volume may be lower when playing DVDs than when playing other discs or during TV broadcasts. If you turn the volume up, reduce it again so that a sudden increase in output does not occur.

Do not connect the player through your video cassette recorder

The picture may not be played back correctly due to the copy guard.

2 Recharge the battery pack.

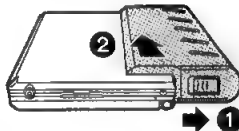
Connect to the household mains socket while the battery pack is attached (➡ page 12).



The [CHG] indicator lights.
(The [PWR] indicator goes out.)

■ To detach

- 1 Slide and hold the latch in position.



Note

- The battery pack can only be recharged when the unit is off.
- Refer to "Precautions" on pages 6 and 7.

Recharging is complete when [CHG] goes out

Disconnect the AC mains lead and AC adaptor.

■ Recharging and play times

Recharging (at 20 °C)	Play time	
DVD-LV60 Approx. 5 hours	LCD on	LCD off
	Approx. 4 hours*	Approx. 6 hours
DVD-PV40 Approx. 5 hours	Approx. 6 hours	

*When brightness is set to the lowest level (➡ page 23).

- Times shown above depend on operating conditions.
- The charge is shown on the unit's display during charging. Use this indicator as a guide.

Flashes → Flashes → **Charging complete**

Low

■ Confirm the battery charge on the unit's display

→ → → Flashes **Full Low Recharge**

■ If play time dramatically reduces after recharging

The battery pack has reached the end of its service life (it can be recharged about 300 times).

■ If the unit is not to be used for a long time

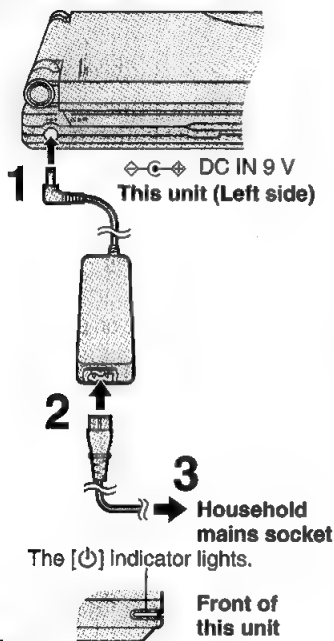
- Detach the battery pack. (Even if the unit is off, it still uses some power. This can lead to over discharging of the battery and malfunction.)
- Recharge the battery pack when you are ready to use it again.

Power supply

Using the AC adaptor

**FOR UNITED KINGDOM ONLY
READ THE CAUTION FOR THE AC
MAINS LEAD ON PAGE 2 BEFORE
CONNECTION.**

This figure shows DVD-LV60.



Note

Refer to "Precautions" on page 7.

The unit is in the standby condition (the [⏻] indicator lights) when the AC mains lead is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet.

■ When the unit is not going to be used for a long time

The unit consumes 1.5 W when in standby mode.

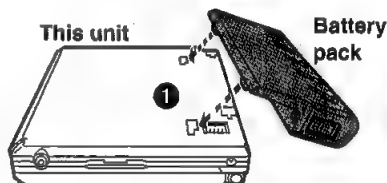
To conserve power, disconnect the AC mains lead from the mains socket.

Using the battery pack (Lithium ion battery pack)

- Battery pack is not included with DVD-PV40.
- Charge the battery pack before using it for the first time.
- Quote the following part number when replacing the battery pack.
CGR-H601E/1B

1 Attach the battery pack.

- 1 Insert the guides on the battery pack into the holes on the base and the rear of the unit.



- 2 Slide the pack so it clicks and locks into place.



Maintenance

■ To clean this unit, wipe with a soft, dry cloth.

- Use eyeglass cleaner to remove stubborn dirt from the LCD. **DVD-LV60**
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

■ Maintenance of the lens

- If dust is attached to the lens, remove dust carefully with an air blower for camera lenses (optional).

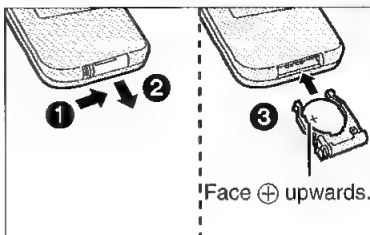
Recommended product:

Lens cleaner kit (SZZP1038C)

- Be careful not to touch the lens with your fingers.

Preparing the remote control

Insert the battery (Lithium battery)



■ Replacing the button-type battery

The battery normally lasts for about a year. Replace if the remote control fails to operate the unit when used within the operation range.

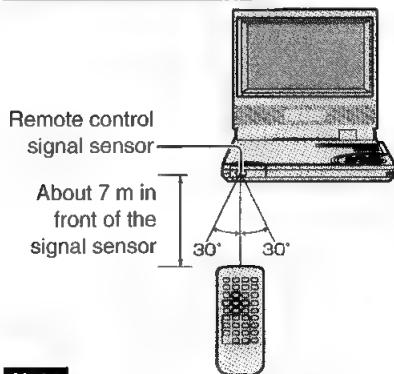
Replacement: CR2025

Note

Refer to "Precautions" on pages 6 and 7.

Operation range

This figure shows DVD-LV60.



Note

- Do not expose the remote control signal sensor to bright light.
- Do not place obstacles between the remote control signal sensor and the remote control.
- Do not use another unit's remote control at the same time.

Disc and unit handling precautions

Concerning discs

Do not use irregularly shaped discs, such as heart-shaped.

(These discs can damage the unit.)



How to hold a disc

Do not touch the recorded shiny surface.



If the surface is dirty

Wipe it with a damp cloth and then wipe dry. Wipe from the center toward the circumference.



If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe with a soft, dry, lint-free cloth before using the disc.

Handling precautions

- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not attach labels or stickers to discs.
- Do not use discs with exposed adhesive from tape or left over peeled off stickers.
- Do not use scratch-proof protectors or covers.
- Do not use CDs printed with label printers available on the market.

Do not place or store discs in the following places

- Locations exposed to direct sunlight
- Humid or dusty locations
- Locations directly exposed to a heat vent or heating appliance

Avoid the following:

- Spraying flammable insecticides near the unit.
 - Pressing the LCD. **DVD-LV60**
 - Touching the lens and other parts of the laser pickup.
- Do not use the unit in the following places;
- Sandy places such as beaches.
 - On top of cushions, sofas, or hot equipment such as amplifiers.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

■ Type of disc for the type of connected TV

DVDs and Video CDs are recorded using either PAL or NTSC.

Refer to this table when selecting discs.

TV type	Disc	TV Monitor			
		For the United Kingdom and Continental Europe		For Asia	
		DVD-LV60	DVD-PV40	DVD-LV60	DVD-PV40
Multi-system TV	PAL	✓	✓	✓	✓
	NTSC	✓	✓ ^{※1}	✓ ^{※1}	✓ ^{※2}
NTSC TV	PAL	×	×	×	×
	NTSC	×	×	×	✓ ^{※2}
PAL TV	PAL	✓	✓	✓	×
	NTSC	✓ ^{※3}	✓ ^{※3, ※4}	✓ ^{※3, ※4}	×

※1 If you select "NTSC" in "NTSC Disc Output" (⇒ page 30), the picture may be clearer. (The LCD on DVD-LV60 for Asia will lose colour when you select "NTSC", but the picture on the television should be clearer.)

※2 The factory preset for "NTSC Disc Output" is "NTSC", so no changes to the initial settings are necessary.

※3 If your television is not equipped to handle PAL 525/60 signals the picture will not be shown correctly.

※4 The factory preset for "NTSC Disc Output" is "PAL60", so no changes to the initial settings are necessary.

Note

When a disc which does not comply with Video CD standard is played, the bottom part of the picture may disappear.

Before enjoying DVD/Video CD/CD







The On-Screen menu language of your player has been factory preset to English.

You can change the menu language to other languages (⇒ page 31, Display—Menu Language).

In these instructions, it is assumed that English has been selected as the menu language.

Disc information

■ Discs that can be played

Disc type	Logo	Region number	Video system	Indication used in instructions
DVD-Video		See below for details.	PAL/NTSC	
Video CD		—	PAL/NTSC	
Audio CD		—	—	

■ Discs that cannot be played

DVD-Audio, DVD-ROM, DVD-R/
DVD-RAM, CD-ROM, VSD, CDV, CD-G,
+RW, DVD-RW, CVD, SVCD, SACD,
Divx Video Discs, and Photo CD.

■ Playing DVDs and Video CDs

The producer of the material can control how these discs are played. This means that you may not be able to control play of a disc with some operations described in these operating instructions. Read the disc's instructions carefully.

■ DVDs that can be played



This unit has a Dolby Digital decoder so you can play DVDs with this mark.



This unit does not have a DTS decoder. Connect this unit to equipment that has a DTS decoder to enjoy DVDs with this mark.

■ Region number supported by this unit

Region numbers are allocated to DVD players and software according to where they are sold.

- You can play DVDs marked with labels containing the region number of this unit or "ALL".

Read the disc's instructions carefully.

For the United Kingdom and Continental Europe

- The region number of this unit is "2".

Example:



For Asia

- The region number of this unit is "3".

Example:



■ "Copy Protection"

Some DVD discs contain "Copy Protection" signal which can affect the video signal if the output of the player is fed through a VCR to the TV. The picture may become unstable or the picture contrast may change drastically. It is therefore very important to connect this unit according to the diagram in these Operating Instructions (➡ page 14).

Installation

- 1. Water and Moisture**—Do not use this unit near water—for example, near a bathtub, washbowl, swimming pool, or the like. Damp basements should also be avoided.
- 2. Condensation**—Moisture may form on the lens in the following conditions...
 - immediately after a heater has been turned on.
 - in a steamy or very humid room.
 - when the unit is suddenly moved from a cold environment to a warm one. If moisture forms inside this unit, it may not operate properly. To correct this problem wait about one hour for the moisture to evaporate.
- 3. Heat**—Never use or place this unit or battery near a heat source. Do not leave it in an automobile exposed to direct sunlight for a long time with the doors and windows closed as this may deform the cabinet.
- 4. Foreign Material**—Care should be taken so that objects do not fall into and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock.

Service

- 1. Damage Requiring Service**—The unit should be serviced by qualified service personnel when:
 - The AC mains lead or AC adaptor is damaged.
 - Objects have fallen or liquid has spilled into the unit.
 - The unit has been exposed to water.
 - The unit does not appear to operate normally or exhibits a marked change in performance.
 - The unit has been dropped, or the enclosure damaged.

- 2. Servicing**—The user should not attempt to service the unit beyond that described in the operating instructions. All other servicing should be referred to authorized service personnel.
- 3. Replacement parts**—When parts need replacing, ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4. Safety check**—After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

AC adaptor

This AC adaptor operates on AC between 100 V and 240 V.

But

- Obtain a suitable plug adaptor if the plug does not fit the AC mains socket.

Precautions for Listening with the Headphones or Earphones

- Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.
- Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
- Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

Do not rest the unit on your lap for a long time while using it. The unit can become hot and cause burns.

Precautions

Before using this unit, be sure to read the applicable items of the operating instructions and these safety suggestions carefully.

Afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

Power source

- 1. Power Source**—The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
- 2. Power lead Protection**—AC mains lead should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Never take hold of the plug or lead if your hand is wet, and always grasp the plug body when connecting or disconnecting it.
- 3. Overloading**—Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 4. Nonuse Periods**—If the set is not being used for a long time, be sure to disconnect the AC mains lead from the mains socket and detach the battery pack to prevent potential damage caused by battery leakage.
- 5. Attachments**—Do not use attachments not recommended by the unit manufacturer as they may cause hazards.

Maintenance

Disconnect this unit from mains socket before cleaning. Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

Batteries

1. Battery pack (Lithium ion battery pack)

- Use this unit to recharge the battery pack.
- Do not use the battery pack with equipment other than the specified player.
- Do not use, charge or leave the battery pack in locations where there is static electricity.
- Do not use the player outside if it is snowing or raining. (The battery pack is not waterproof.)
- Do not get dirt, sand, liquids, or other foreign matter on the terminals.
- Do not touch the plug terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Do not store the battery pack in temperature over 60 °C.

2. Button-type battery (Lithium battery)

- Insert with poles aligned.
- Do not touch the terminals (+ and -) with metal objects.
- Do not disassemble, remodel, heat or throw into fire.
- Keep out of reach of children.

If any electrolyte should come into contact with your hands or clothes, wash it off thoroughly with water.

If any electrolyte should come into contact with your eyes, never rub the eyes.

Rinse eyes thoroughly with water, and then consult a doctor.

3. Disposing of the batteries

Check and follow your local regulations before disposal.

CAUTION!

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

Preparing the remote control	11
Power supply	12
• Using the AC adaptor	12
• Using the battery pack	12

Easy setup—Television connections and settings	14
• Connecting to a television	14
• Selecting TV screen type	15

• Fast forward and rewind—SEARCH	18
• Slow-motion	18
• Frame-by-frame viewing	18

• Starting play from a selected title or track	19
• Returning to a menu	19

Changing the monitor settings	
DVD-LV60	22
• Changing the size of the picture	23
• Adjusting the brightness	23
• Adjusting colour intensity	23
Repeat play DVD-PV40	24

Using GUI screens	25
• Common procedures	25
• Screen for disc information	26
• Screen for unit information	27
• Shuttle screen	28

Enjoying more powerful sound	36
• Enjoying surround sound with 3 or more speakers	36
• Listening through 2 speakers	37
Recording to MDs and cassettes	38
Using an optional car adapter	38
Using headphones	38

Watching video from a video camera DVD-LV60	39
Using a face mounted display (EYE-TREK) DVD-PV40	39
Glossary	40
Troubleshooting Guide	41
Specifications	45

■ The features available depend on the model. These marks indicate features available with the different models.

DVD-LV60 (DVD-LV60 only)

DVD-PV40 (DVD-PV40 only)

Open the facing page when using the operating instructions.

